

PNNL Environmental Management Performance Report

Monthly Report - January 2000

March 2000

**PREPARED FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE
OFFICE OF ENVIRONMENTAL MANAGEMENT**

**Pacific Northwest National Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**

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This document provides the Department of Energy Richland Operations Office (DOE-RL) with a report of the Pacific Northwest National Laboratory (PNNL) performance by Battelle Memorial Institute and its subcontractors.

In Section A, the Executive Summary, text and graphics report the safety metrics status for all PNNL activities. Senior management's overall performance assessment of all Environmental Management activities conducted at PNNL is presented in a stoplight chart.

Section B, Project Performance Summary, provides a brief summary of the month's performance for the PNNL lead activity, PNNL Waste Management (PBS RL-ST01). Summary analyses pertaining to PNNL's support to other Project Baseline Summaries (PBSs) are addressed in the contractor's report having lead responsibility for that scope.

Unless otherwise noted, information in this report is current as of January 30, 2000.

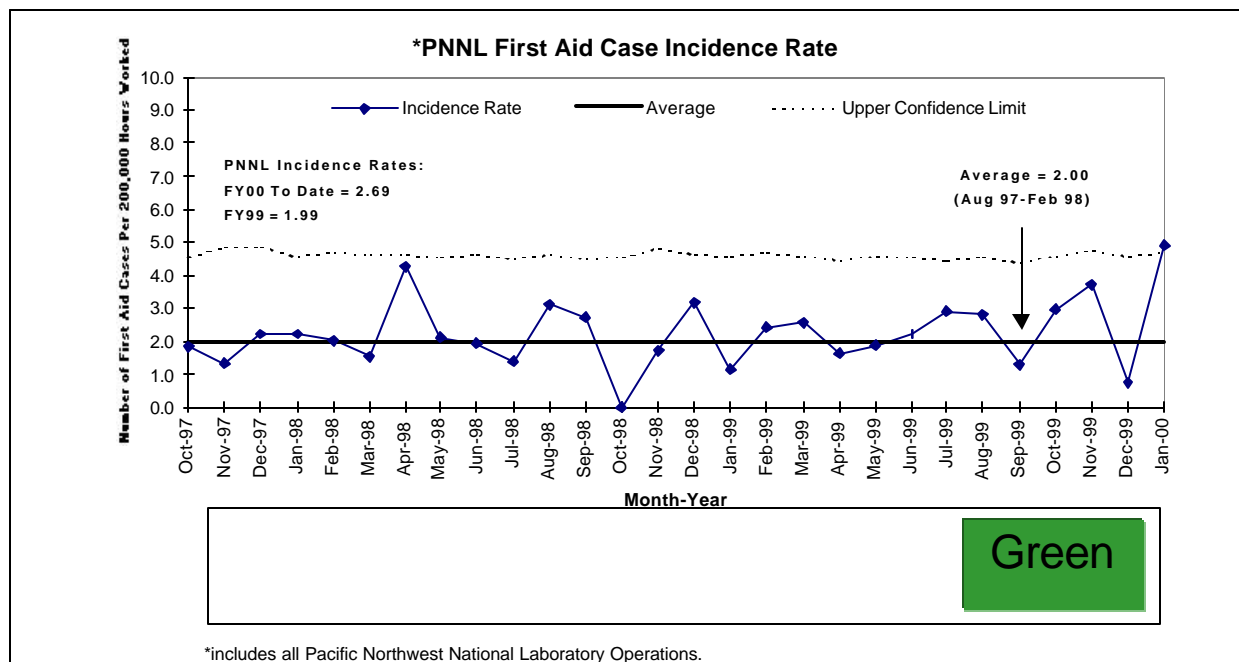
This section provides an executive-level summary of performance information and is intended to bring to Management's attention that information considered to be most noteworthy. The section begins with overviews of safety, followed by a spotlight chart on overall performance.

Safety Overview

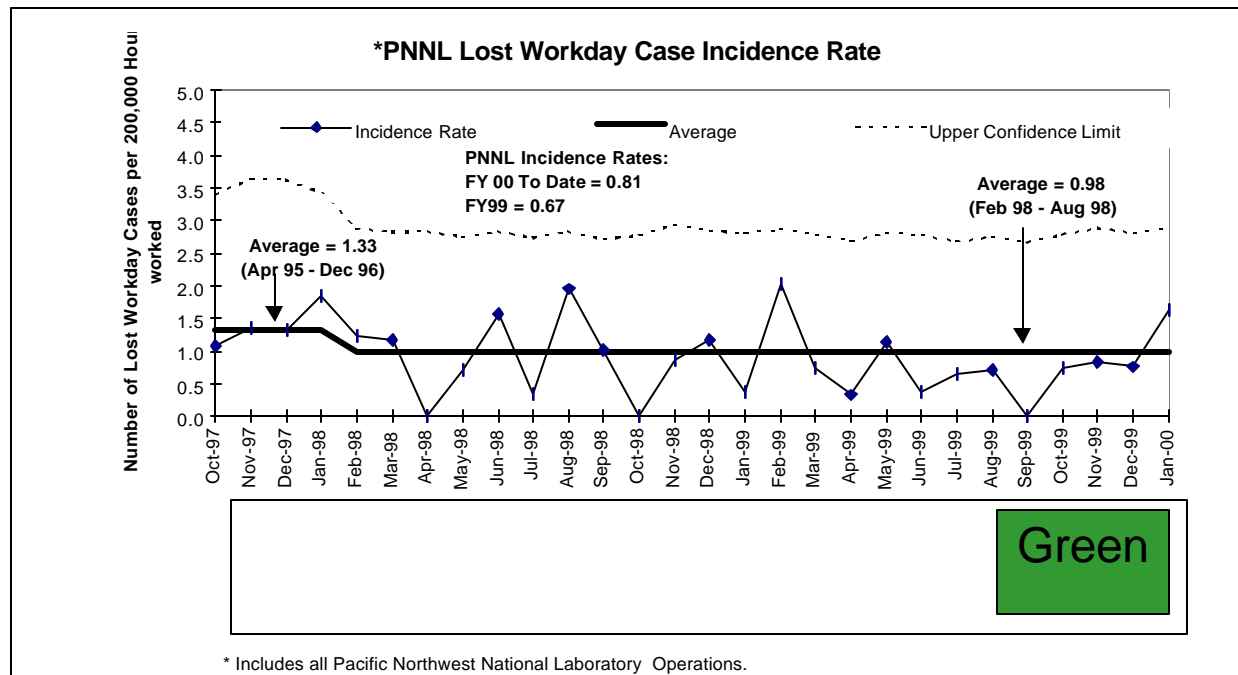
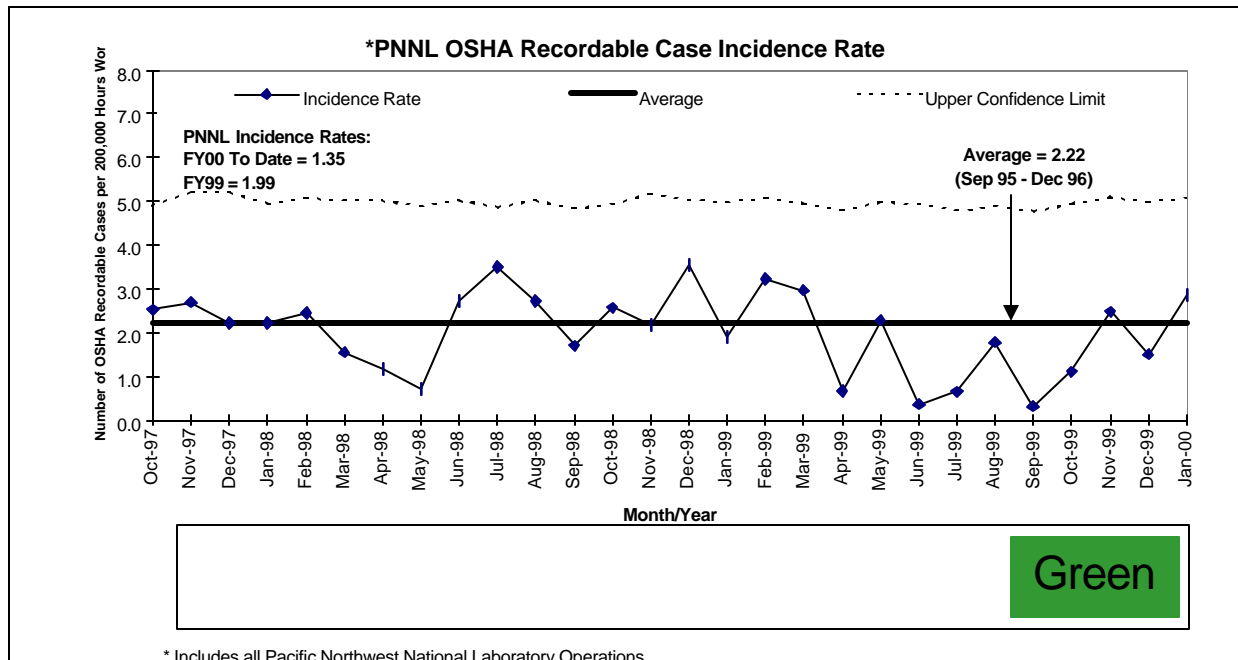
The focus of this section is on documenting trends in work-related injuries and illnesses. Improvements in these rates result from the efforts of the PNNL workforce as they implement the Integrated Environment, Safety, and Health (ES&H) Management System (ISMS), work towards achieving Voluntary Protection Program (VPP) "star" status, and accomplish work through Enhanced Work Planning (EWP). Safety and health statistical data are presented in this section.

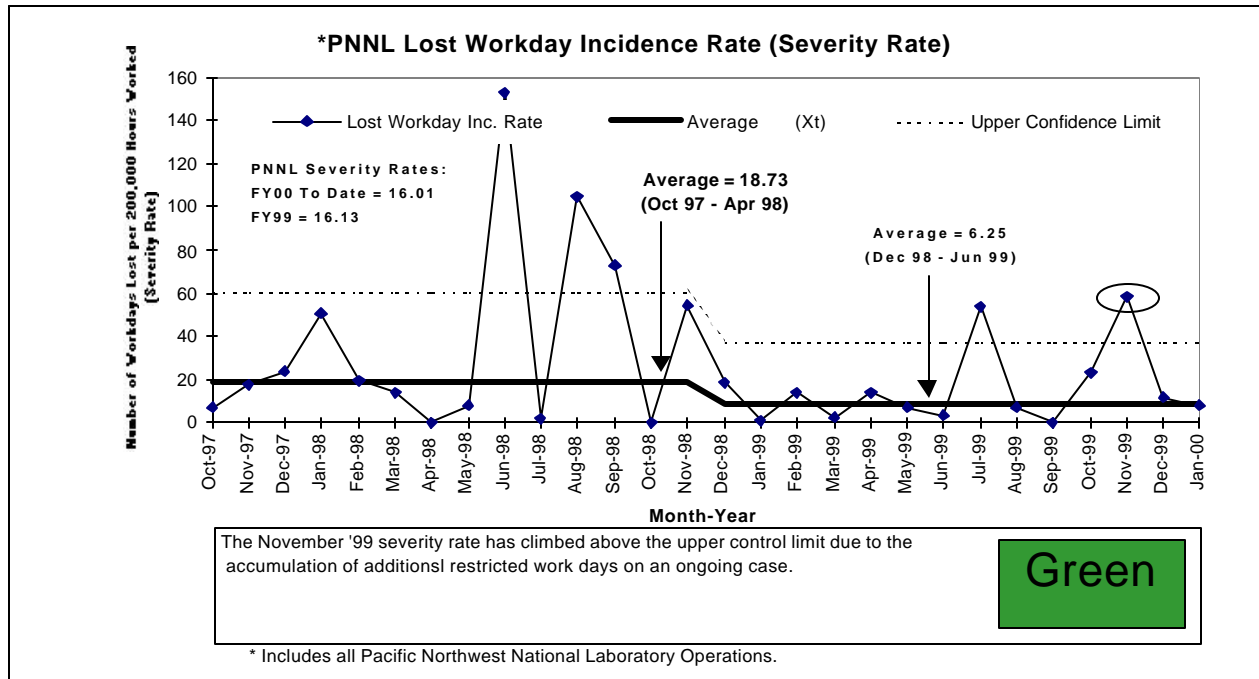
SIGNIFICANT SAFETY AND HEALTH EVENTS

Currently the Occupational Safety and Health Administration (OSHA) Recordable Rates demonstrate that for six of the past eight months, PNNL data are below the 2.22 average and the Lost and Restricted Workday Rates demonstrate that for seven of the past eight months data are below the 0.98 average. PNNL also experienced a notable change in the November 1999 severity rate, that pushed it above the upper control limit. This change was because of the accumulation of additional restricted workdays on an ongoing case.



PNNL Environmental Management Performance Report – January 2000
Section A - Executive Summary





Cost/Schedule Performance Spotlight

The following rating reflects overall performance for activities conducted by PNNL. *(Narrative not required when rating is green.)*



Green: Satisfactory
 Yellow: Significant improvement required
 Red: Unsatisfactory

This section provides cost and schedule performance, any significant issues, and upcoming baseline change requests for the period covered. In fiscal year (FY) 2000, Battelle Memorial Institute has lead responsibility over PBS RL-ST01, PNNL Waste Management WBS 1.7.1.

Mission

WBS 1.7.1 provides PNNL with waste management services and compliant operations in support of science and technology development for the multiprogram needs of the U.S. Department of Energy (DOE) Complex. These services include:

- essential surveillance and maintenance of DOE laboratory facilities assigned to PNNL for safe containment of radioactive and hazardous materials
- infrastructure required to manage wastes and effluents currently generated at the PNNL
- operational compliance services to meet regulatory requirements and operating permits including environment, safety and health regulations
- management of legacy wastes and contamination remaining from past PNNL research operations.

Performance Data and Analysis

As of January 30, the cumulative cost variance of positive \$0.1M is the result of offsetting variances, and it is expected that the baseline activities will be completed within the funding allocation. The primary reasons for the cumulative schedule variance of negative \$0.6M are described below.

- The fabrication of the drum-handling system for high-dose waste has been delayed. Staff members determined that the inner shipping container would not meet the 4-foot drop scenario imposed by the safety analysis report for packaging (SARP). Redesign of the inner container to ensure it will meet code requirements for a 4-foot “normal” drop, is in final checking.
- There have been fewer solid waste disposal shipments than estimated for this time of year.
- The completion of modifications to the Radioactive Liquid Waste System (RLWS) has been delayed. The RLWS delay has affected cask shipments to the 200 Area for final disposition. The estimated usage date of the radioactive liquid waste (RLW) tank is late March 2000, which leaves only six months of the fiscal year to achieve a milestone that was planned to be accomplished in one full year. At this time, as much waste as possible is being held for the RLW tank when it comes on line.

As of February 7, a change request to modify the RLWS baseline to reflect impacts of additional post-start activities was approved by DOE-RL Projects. The change request includes the revised work control processes that were required by Fluor Federal Services’ construction management and PNNL’s safety and building management staff. A revised Project Authorization Modification was issued to DOE-RL on February 7 for the increased funding requirement. Operating dollars within the Program are being redirected to General Plant Projects (GPP) to complete the additional scope. The project team will continue to monitor the remaining activities to closure.

